Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	(v-ring) near2 cylinder	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2005/02/17 14:09
	5	(knife near2 edged) near3 (ring near3 cylinder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 12:17
L3	56	clipping near2 punch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 12:27
L4	15	(("4192414") or ("4203359") or ("4890475") or ("5054353") or ("5749279") or ("3802310")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/17 12:28
L5	11	("6408726" "5749279" "5673601" "5136521" "3802310").PN.	US-PGPUB; USPAT; USOGR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 14:11
L6	5	("6408726" "5749279" "5673601" "5136521" "3802310").PN.	US-PGPUB; USPAT	OR	ON	2005/02/17 15:15

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ŀ		"5472298" "5572902" "5647427"				
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L9	50	("4969344" "5868555" "5975858" "5651301" "4471304" "5516082" "4290577" "4293115" "4363261" "4363380" "4423748" "4463590" "4543812" "4549482" "4796453" "4874309" "4925115" "4954074" "5213031" "5390527" "5460708" "5472298" "5572902" "5647427" "5682786" "5799532" "5810119" "5829490" "6006578" "6068245" "6125681" "6135214" "6490904" "6821104" "4465441" "5651335" "4307693" "4768629" "4828337" "4960188" "5419242" "5553713" "5636561" "5651634" "5743362" "6024011" "6325192" "6405846" "6418894" "5477725").pn.	US-PGPUB; USPAT	OR	ON	2005/02/17 15:16
S1	6	(v-ring or (v near2 ring)) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:53
S2	25	(v-ring or (v near2 ring)) near2 cylinder	USOCR	OR	ON	2004/06/27 19:42
S3	7079	tappet	USOCR	OR	ON	2004/06/27 19:42
S4	11735	tappet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:42
S5	31	tappet and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:45
S6	4166	(ejector or ejecting) and (blanking or punch)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:48
\$7	4	(v-ring) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 11:35
S8	21451	(v ring) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:53

S9	6	(v near2 ring) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:55
S10	744	compensation near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:05
S11	248	(hydraulic or hydraulically) near2 equilibrium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:57
S12	6	(compensation near2 cylinder) and "83"/\$:ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:57
S13		((hydraulic or hydraulically) near2 equilibrium) and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:58
S14	408	(83/639.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 21:03
S15	673702	(compensation near2 cylinder) or buffer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:05
S16	391	((compensation near2 cylinder) or buffer) and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:06
S17	1	(((compensation near2 cylinder) or buffer) and "83"/\$.ccls.) and ((hydraulic or hydraulically) near2 equilibrium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:06
S18	0	"6408726".URPN.	USPAT	OR	ON	2004/06/27 20:09

S19		("1903234" "1908563" "2123683" "2182162" "2211864" "3029677" "3392613" "3640167" "3667305" "3739669" "3779122" "3802310" "4387583" "4672831" "4901427" "4979415" "5052208" "5077998" "5136521" "5295938" "5325755" "5662016").PN.	USPAT	OR	ON	2004/06/27 20:09
S20	9	"5673601".URPN.	USPAT	OR	ON	2004/06/27 20:16
S21	10	("3827328" "4116122" "4214496" "4633720" "4833884" "4945742" "5299478" "5345861" "5361615" "5390574").PN.	USPAT	OR	ON	2004/06/27 20:18
S22	14	"3570343".URPN.	USPAT	OR	ON	2004/06/27 20:32
S23	5	("1428174" "2579940" "3107567" "3111053" "3119292").PN.	USPAT	OR	ON	2004/06/27 20:34
S24	101	(83/639.5).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 21:14
S25	1468	((83/615) or (83/623) or (83/55) or (83/694)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 21:15
S26	1413	(((83/615) or (83/623) or (83/55) or (83/694)).CCLS.) not (((83/639.5).CCLS.) or ((83/639:1).CCLS.))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:38
S27	398	(83/685).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/28 07:38
S28	1916	((83/55) or (83/639.1) or (83/639.5) or (83/694) or (83/615) or (83/623)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF.	2004/06/28 07:38

S29	350	((83/685).CCLS.) not (((83/55) or (83/639.1) or (83/639.5) or (83/694) or (83/615) or (83/623)). CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:46
S30	54963	(equal or equalized) near2 (pressure or pressurized or pressurizing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:47
S31	112	((equal or equalized) near2 (pressure or pressurized or pressurizing)) and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:49
S32	31	((equal or equalized) near2 (pressure or pressurized or pressurizing)) and "83"/\$:ccls. and (punch or die)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:51
S33	30	((equal or equalized) near2 (pressure or pressurized or pressurizing)) and "83"/\$.ccls. and (punch or die)	USOCR	OR	ON	2004/06/28 07:51

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
Li	8	(v-ring) near2 cylinder	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 14:09
L2	5	(knife near2 edged) near3 (ring near3 cylinder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 12:17
L3	56	clipping near2 punch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 12:27
L4	15	(("4192414") or ("4203359") or ("4890475") or ("5054353") or ("5749279") or ("3802310")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR ·	OFF .	2005/02/17 12:28
L5	11	("6408726" "5749279" "5673601" "5136521" "3802310").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 14:11
L6	5	("6408726" "5749279" "5673601" "5136521" "3802310").PN.	US-PGPUB; USPAT	OR	ON	2005/02/17 15:15

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S1	6	(v-ring or (v near2 ring)) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:53
S2	25	(v-ring or (v near2 ring)) near2 cylinder	USOCR	OR	ON	2004/06/27 19:42
S3	7079	tappet	USOCR	OR	ON	2004/06/27 19:42
S4	11735	tappet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:42
S5	31	tappet and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:45
S6	4166	(ejector or ejecting) and (blanking or punch)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:48
S7	4	(v-ring) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/17 11:35
S8	21451	(v ring) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:53

S9	6	(v near2 ring) near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:55
S10	744	compensation near2 cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:05
S11	248	(hydraulic or hydraulically) near2 equilibrium	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:57
S12	6	(compensation near2 cylinder) and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 19:57
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S14	408	(83/639.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 21:03
S15	673702	(compensation near2 cylinder) or buffer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:05
S16	391	((compensation near2 cylinder) or buffer) and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:06
S17	. 1	(((compensation near2 cylinder) or buffer) and "83"/\$.ccls.) and ((hydraulic or hydraulically) near2 equilibrium)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/27 20:06
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S19	22	("1903234" "1908563" "2123683" "2182162" "2211864" "3029677" "3392613" "3640167" "3667305" "3739669" "3779122" "3802310" "4387583" "4672831" "4901427" "4979415" "5052208" "5077998" "5136521" "5295938" "5325755" "5662016").PN.	USPAT	OR	ON	2004/06/27 20:09
S20	9	"5673601".URPN.	USPAT	OR	ON	2004/06/27 20:16
S21	10	("3827328" "4116122" "4214496" "4633720" "4833884" "4945742" "5299478" "5345861" "5361615" "5390574").PN.	USPAT	OR	ON	2004/06/27 20:18
S22	14	"3570343".URPN.	USPAT	OR	ON	2004/06/27 20:32
S23	5	("1428174" "2579940" "3107567" "3111053" "3119292").PN.	USPAT	OR	ON	2004/06/27 20:34
S24	101	(83/639.5).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 21:14
S25	1468	((83/615) or (83/623) or (83/55) or (83/694)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/27 21:15
S26	1413	(((83/615) or (83/623) or (83/55) or (83/694)).CCLS.) not (((83/639.5).CCLS.) or ((83/639.1).CCLS.))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:38
S27	398	(83/685).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/28 07:38
S28	1916	((83/55) or (83/639.1) or (83/639. 5) or (83/694) or (83/615) or (83/623)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/28 07:38

S29	350	((83/685).CCLS.) not (((83/55) or (83/639.1) or (83/639.5) or (83/694) or (83/615) or (83/623)). CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:46
S30	54963	(equal or equalized) near2 (pressure or pressurized or pressurizing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:47
S31	112	((equal or equalized) near2 (pressure or pressurized or pressurizing)) and "83"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 07:49
S32	31	((equal or equalized) near2 (pressure or pressurized or pressurizing)) and "83"/\$:ccis. and (punch or die)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2004/06/28 07:51
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PLUS Search Results for S/N 10018609, Searched February 17, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated sear ch

system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that a re

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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5477725	3636816

10018609_QUAL.txt

5682786 49 5799532 49 5810119 49 5829490 49	6068245 49	6135214 49 6490904 49	6135214 49 6490904 49 6821104 49 4465441 49 5651335 49 4307693 49 4768629 49	6135214 49 6490904 49 6821104 49 4465441 49 5651335 49 4307693 49	5799532 5810119 5829490 6006578 6068245	49 49 49 49
	5682786 49 5799532 49 5810119 49 5829490 49	5682786 49 5799532 49 5810119 49 5829490 49 6006578 49 6068245 49 6125681 49 6135214 49 6490904 49	5682786 49 5799532 49 5810119 49 5829490 49 6006578 49 6125681 49 6125681 49 6135214 49 6490904 49 6821104 49 4465441 49 5651335 49 4307693 49 4768629 49	5682786 49 5799532 49 5810119 49 5829490 49 6006578 49 6125681 49 6135214 49 6490904 49 6821104 49 4465441 49 5651335 49 4307693 49 4768629 49 4828337 49 4960188 49 5419242 49 5553713 49 5636561 49	5390527 5460708 5472298 5572902	49 49 49 49

10018609_QUAL.txt

10018609_QUAL.txt

3592106	41
3704619	41
3670557	41
3636816	41

10018609 CLS.txt

Most Frequently Occurring Classifications of Patents Returned From A Search of 10018609 on February 17, 2005

```
72/348
  2
      72/351
  2
      72/355.4
  2
     72/402
  2
    123/90.16
    192/70.25
  2 251/1.3
  2
     415/158
     417/222.1
Cross-Reference Classifications
      72/347
  3
      72/453.13
  3
      92/24
  3
     417/273
  3
     425/590
  2
      29/889.1
  2
      29/889.2
  2
      60/443
  2
      60/602
  2
      72/21.1
  2
      72/344
  2
     72/377
  2
      72/427
  2
     72/446
  2
      72/462
  2
      72/481.1
  2
      83/639.1
  2
      91/497
  2
      92/122
  2
      92/168
  2
      92/17
  2
      92/5R
  2
     92/85B
  2
    100/259
     100/269.14
  2
     267/119
  2
    425/451.9
  2
     425/595
```

Original Classifications

Combined Classifications

- 4 72/347
- 4 72/348

10018609_CLS.txt

3 72/446 3 72/453.13 . 3 92/168 3 92/24 3 251/1.3 3 417/273 3 425/590 2 29/889.1 2 29/889.2 2 60/443 2 60/602 2 72/21.1 2 72/344 2 72/350 72/351 2 72/355.4 2 72/377 2 72/402 2 72/427 2 72/462 2 72/481.1 2 83/137 2 83/639.1 2 91/497 2 92/122 2 92/13.8 2 92/17 2 92/5R 2 92/85B 2 100/259 2 100/269.14 2 123/90.16 2 192/70.25 2 267/119 2 415/158 2 417/219 2 417/222.1 2 425/150 2 425/451.2 2 425/451.9

425/595

10018609_CLSTITLES.txt
Titles of Most Frequently Occurring Classifications of Patents Returne

From A Search of 10018609 on February 17, 2005

4	- ·	OR, 3 XR) : METAL DEFORMING BY USE OF CLOSED-DIE AND COACTING WORK-FORCER (E.G., PUSH-DRAWING) .Cup or shell drawing (i.e., deep drawing)
4		OR, 0 XR) : METAL DEFORMING BY USE OF CLOSED-DIE AND COACTING WORK-FORCER (E.G., PUSH-DRAWING) .Cup or shell drawing (i.e., deep drawing)With additional metal-deforming
3	•	OR, 2 XR) : METAL DEFORMING WITH MEANS TO DRIVE TOOL .With means to permit tool positioning
3	72/453.13 (0 Class 072 72/429 72/453.01 72/453.13	<pre>: METAL DEFORMING WITH MEANS TO DRIVE TOOL .Including pneumatic- or fluid-actuated tool support</pre>
3	92/168 (1 Class 092 92/165R 92/168	OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH GUIDE OR SEAL ON CYLINDER END PORTION FOR PISTON OR MEMBER MOVED BY PISTON .Non-metallic seal means between piston or member and end portion
3		OR, 3 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Means includes element interfitting between working member and fixed partElement actuated or retained in operative position by relatively movable fluid respon
sive	member	position by rotatively movable flata respon

·S	3	251/	Class	251	10018609_CLSTITLES.txt OR, 1 XR) : VALVES AND VALVE ACTUATION BLOW-OUT PREVENTERS (I.E., COOPERATING SEGMENT
Ŋ			251/1.3		OF ANNULUS) .Radial reciprocating ram
	3	417/	Class .	417	OR, 3 XR) : PUMPS THREE OR MORE CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP WITH ROTAR
Y	TRA	NSMI	SSION		RADIAL, OR CONTEAL RELATIONSHIP WITH ROTAL
			417/273		AXIS .Radial cylinders
	3	425/			OR, 3 XR) : PLASTIC ARTICLE OR EARTHENWARE SHAPING OR TREATING: APPARATUS
			425/542		FEMALE MOLD AND CHARGER TO SUPPLY FLUENT STOCK UNDER PRESSURE THERETO IN FLUID-TIGHT REL
ΑΊ	CION	ISHIP	(E.G.,		INTEGRICAL MOLD FING \
			425/589 425/590		INJECTION MOLD, ETC.) .With means to close moldVarying pressure and/or speed closing
	2	29/8	389.1 Class 29/592 29/889 29/889.1	029	OR, 2 XR) : METAL WORKING METHOD OF MECHANICAL MANUFACTURE .Impeller makingRepairing or disassembling
	2	29/8		029	OR, 2 XR) : METAL WORKING METHOD OF MECHANICAL MANUFACTURE .Impeller makingTurbomachine making
1	2	60/4	143 Class 60/325 60/443	060	OR, 2 XR) : POWER PLANTS PRESSURE FLUID SOURCE AND MOTOR .Servo-motor having externally operated contro
1					valve sets motor or pump displacement
	2	60/6	502 Class 60/597		OR, 2 XR) : POWER PLANTS FLUID MOTOR MEANS DRIVEN BY WASTE HEAT OR BY EXHAUST ENERGY FROM INTERNAL COMBUSTION E

10018609 CLSTITLES.txt NGINE 60/598 .With supercharging means for engine .. Having condition responsive valve controllin 60/602 g engine exhaust flow (0 OR, 2 XR) 2 72/21.1 Class 072 : METAL DEFORMING WITH USE OF CONTROL MEANS ENERGIZED IN RESPONS 72/6.1 Ε TO ACTIVATOR STIMULATED BY CONDITION SENS OR 72/20.1 .Sensing tool or tool-linked part 72/21.1 .. Including plural sensors or sensor responsiv е to plural conditions 2 (0 OR, 2 XR) 72/344 072 : METAL DEFORMING Class BY USE OF CLOSED-DIE AND COACTING WORK-FORCER 72/343 (E.G., PUSH-DRAWING) .With stripping or ejecting from tool 72/344 2 (1 OR, 1 XR) 72/350 072: METAL DEFORMING Class 72/343 BY USE OF CLOSED-DIE AND COACTING WORK-FORCER (E.G., PUSH-DRAWING) .Cup or shell drawing (i.e., deep drawing) 72/347 ..With application of frictional restraining 72/350 force to work during deformation 2 (2 OR, 0 XR) 72/351 072 : METAL DEFORMING Class BY USE OF CLOSED-DIE AND COACTING WORK-FORCER 72/343 (E.G., PUSH-DRAWING) 72/347 .Cup or shell drawing (i.e., deep drawing) ..With application of frictional restraining 72/350 force to work during deformation 72/351 ...With yieldable actuation of work-gripper (e.g., spring-biased blank-holder) 2 72/355.4 (2 OR, 0 XR) 072: METAL DEFORMING Class 72/343 BY USE OF CLOSED-DIE AND COACTING WORK-FORCER (E.G., PUSH-DRAWING) 72/352 . Forcing work into or within closed die; e.g.,

.. By two or more coacting tools movable

72/353.2

10018609 CLSTITLES.txt relative to closed die; e.g., tool compl ex ...One tool telescoping into closed die 72/354.6 72/355.2Coaxial opposed toolsPassing through work; e.g., punch 72/355.4 2 (0 OR, 2 XR) 72/377 072: METAL DEFORMING Class 72/362 PROCESS .With attenuation, thickening; elongating or 72/377 shortening of work material 2 72/402 (2 OR, 0 XR) Class 072 : METAL DEFORMING BY THREE OR MORE COACTING RELATIVELY MOVABLE 72/394 TOOLS (I.E., TOOL-COMPLEX) .Concurrently actuated tools 72/399 72/402 ..All tools movable radially inward 2 72/427 (0 OR, 2 XR) 072: METAL DEFORMING Class 72/419 WITH MEANS TO HANDLE WORK OR PRODUCT 72/426 .Including product handling means 72/427 ..Ejector 2 72/462 (0 OR, 2 XR) 072: METAL DEFORMING Class 72/462 TOOL AND/OR TOOL HOLDER 2 72/481.1 (0 OR, 2 XR) 072: METAL DEFORMING Class TOOL AND/OR TOOL HOLDER 72/462 .Having unitary tool-face 72/476 .. With support or holder for adjustable or 72/481.1 removable tool face 2 83/137 (1 OR, 1 XR) 083 : CUTTING Class WITH PRODUCT HANDLING MEANS 83/78 83/109 .Means to move, guide, or permit free fall or flight of product 83/111 .. Means to move product out of contact with tool ... Moving stripper timed with tool stroke 83/129 83/136 Carried by moving tool element or its support

.....Fluid pressure actuated stripper

83/137

				10018609 CLSTITLES.txt
	2	83/639.1	(0	OR, 2 XR)
				: CUTTING
		83/523		MEANS TO DRIVE OR TO GUIDE TOOL
		83/613		.With simple rectilinear reciprocating motion
		02/620 1	1	only
		83/639.1	L	Fluid pressure actuated
	2	91/497	(0	OR, 2 XR)
	_			: MOTORS: EXPANSIBLE CHAMBER TYPE
		91/472		THREE OR MORE CYLINDERS ARRANGED IN PARALLEL
				RADIAL OR CONICAL RELATIONSHIP WITH ROTAR
Y	TRAN	NSMISSION		•
				AXIS
		91/491		.Radially disposed cylinders
		91/497		Stroke control
	2	92/122	/ 0	OD 2 VD)
	۷			: EXPANSIBLE CHAMBER DEVICES
		92/120	0.52	OSCILLATING WORKING MEMBER OR CYLINDER THEREFO
R		32,120		
		92/121		.Oscillatory shaft with radially extending van
е				
		00/100	•	
		92/122		Plural angularly related vanes
	2			
		92/13 8	11	OR. 1 XR)
	۷	92/13.8 Class		
	۷	Class.	092	: EXPANSIBLE CHAMBER DEVICES
	2		092	: EXPANSIBLE CHAMBER DEVICES
ΕI		Class.	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS
ΕI		Class. 92/12.1 ONSHIP WITH	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS
ΕI		Class. 92/12.1	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially
ΕI		Class. 92/12.1 ONSHIP WITH	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS
ΕI	LATIO	Class. 92/12.1 ONSHIP WITH 92/13.8	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem
ΕI		Class 92/12.1 ONSHIP WITH 92/13.8	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR)
EI	LATIO	Class 92/12.1 ONSHIP WITH 92/13.8 92/17 Class	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES
EI	LATIO	Class 92/12.1 ONSHIP WITH 92/13.8	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT
EI	LATIO	Class 92/12.1 ONSHIP WITH 92/13.8 92/17 Class	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER
EI	LATIO	Class 92/12.1 ONSHIP WITH 92/13.8 92/17 Class 92/15	092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT
EI	LATIC	Class 92/12.1 ONSHIP WITH 92/13.8 92/17 Class 92/15 92/17	(0 092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Engages member coaxial with and rotatable relative to working member
EI	LATIO	Class 92/12.1 ONSHIP WITH 92/13.8 92/17 Class 92/15 92/17	(0 092 (0	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Engages member coaxial with and rotatable relative to working member OR, 2 XR)
EI	LATIC	Class 92/12.1 DNSHIP WITH 92/13.8 92/17 Class 92/15 92/17 92/5R Class	(0 092 (0	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Engages member coaxial with and rotatable relative to working member OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES
EI	LATIC	Class 92/12.1 ONSHIP WITH 92/13.8 92/17 Class 92/15 92/17	(0 092 (0	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Engages member coaxial with and rotatable relative to working member OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH (1) SIGNAL OR INDICATOR OR (2) INSPECTION
EI	LATIC	Class 92/12.1 DNSHIP WITH 92/13.8 92/17 Class 92/15 92/17 92/5R Class	(0 092 (0	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Engages member coaxial with and rotatable relative to working member OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES
EI	LATIC	Class 92/12.1 DNSHIP WITH 92/13.8 92/17 Class 92/15 92/17 92/5R Class	(0 092 (0 092	: EXPANSIBLE CHAMBER DEVICES DISPLACEMENT CONTROL OF PLURAL CYLINDERS ARRANGED IN PARALLEL, RADIAL, OR CONICAL R ROTARY TRANSMISSION AXIS .Adjustment means includes external axially extending threaded piston stem OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH RELEASABLE STOP OR LATCH MEANS TO PREVENT MOVEMENT OF WORKING MEMBER .Engages member coaxial with and rotatable relative to working member OR, 2 XR) : EXPANSIBLE CHAMBER DEVICES WITH (1) SIGNAL OR INDICATOR OR (2) INSPECTION

```
10018609 CLSTITLES.txt
                       EXPANSIBLE CHAMBER DEVICES
        Class
                092:
        92/85R
                      WITH CUSHIONING MEANS EFFECTIVE OVER A PORTION
                          ONLY OF STROKE
        92/85B
                      .Fluid spring
  100/259
                 (0 OR, 2 XR)
                100 : PRESSES
        Class
        100/214
                      RECIPROCATING PRESS CONSTRUCTION
        100/259
                      .With plunger return cushioning
  100/269.14
                (0 OR, 2 XR)
                100 : PRESSES
        Class
        100/214
                      RECIPROCATING PRESS CONSTRUCTION
                      .Fluid pressure actuation
        100/269.01
        100/269.14
                      .. Fluid supply system detail
  123/90.16
                 (2 OR, 0 XR)
                123 : INTERNAL-COMBUSTION ENGINES
        Class
        123/90.1
                      POPPET VALVE OPERATING MECHANISM
        123/90.15
                      .With means for varying timing
        123/90.16
                      ..Cam-to-valve relationship
2 192/70.25
                 (2 OR, 0 XR)
                192 : CLUTCHES AND POWER-STOP CONTROL
        Class
        192/30R
                      CLUTCHES
        192/66.1
                      .Axially engaging
        192/70.11
                      .. Interposed, mating clutch-elements
        192/70.25
                      ...With adjustable means to move clutch-elemen
                       axially (e.g., to compensate for wear)
2
  267/119
                 (0 OR, 2 XR)
                267 : SPRING DEVICES
        Class
        267/113
                      FLUID
                      .Expansible-contractible chamber device
        267/118
        267/119
                      .. Press cushion
  415/158
2
                 (2 OR, 0 XR)
       Class
                415 : ROTARY KINETIC FLUID MOTORS OR PUMPS
        415/148
                      SELECTIVELY ADJUSTABLE VANE OR WORKING FLUID
                            CONTROL MEANS
        415/151
                      .Upstream of runner
        415/157
                      ...Single, axially movable cylinder or plate
                      ... Movable to position surrounding blade
        415/158
2 417/219
                 (1 OR, 1 XR)
```

t

Class

417/212

417 :

PUMPS

CONDITION RESPONSIVE CONTROL OF DRIVE

	417/218 417/219	10018609_CLSTITLES.txt TRANSMISSION OR PUMP DISPLACEMENT .Adjustable cam or linkageRadially adjustable stator
2	417/222.1 (2 Class 417 417/212 417/218 417/222.1	: PUMPS
	425/150 (1 Class 425 425/135	
MATE	RIAL	MD I CCDDDD
	425/150	TRIGGERED .Mold motion or position control
2	425/451.2 (1 Class 425 425/450.1	: PLASTIC ARTICLE OR EARTHENWARE SHAPING OR TREATING: APPARATUS
		FEMALE MOLD
	425/451.2	.Varying pressure and/or speed closing
2	425/451.9 (0 Class 425	OR, 2 XR) : PLASTIC ARTICLE OR EARTHENWARE SHAPING OR TREATING: APPARATUS
	425/451.9	SEGMENTED FEMALE MOLD AND MOLD CLAMPING MEANS
2	425/595 (0 Class 425	OR, 2 XR) : PLASTIC ARTICLE OR EARTHENWARE SHAPING OR TREATING: APPARATUS
	425/542	FEMALE MOLD AND CHARGER TO SUPPLY FLUENT STOCK UNDER PRESSURE THERETO IN FLUID-TIGHT RELA

INJECTION MOLD, ETC.)
.With means to lock mold in closed position

TIONSHIP (E.G.,

425/595

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above 3
absorbed 2
accelerated 1
according 2
achieved 1
actual 1
added 1
addition 1
additional 3
advantages 1
after 1
aq 2
against 7
also 5
although 1
an 17
and 56
another 3
any 4
apart 1
apparatus 11
applying 1
appropriate 2
are 15
area 7
areas 1
arranged 6
arrow 1
as 14
assembly 2
assigned 4
associated 1
at 9
base 1
be 15
becomes 1
been 3
being 7
below 2
between 8
betweep 1
blanking 20
blankipg 1
book 1
both 1
bottom 2
briefly 2
by 11
```

can 6 capacity 1 case 4 chara 2 character 1 characterized 5 circuits 1 claim 4 claimed 7 claims 4 clamped 2 clipping 1 closed 1 column 5 compensated 2 compensation 22 compensation 1 complicated 1 comprises 1 comprising 3 configuration 1 connected 12 connecting 1 connection 7 considerably 1 consisting 1 construction 4 conventional 1 cording 1 corresponding 2 corresponds 1 counter 1 counterforce 3 counterholder 20 coupled 1 course 2 cropspie 1 cross 9 crosshead 8 crosspiece 3 cut 6 cutting 3 cyli 1 cylinder 46 cylinders 10 de 1 depending 1 derls 1

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described 4
description 1
designed 1
detail 4
details 1
device 3
die 16
different 1
difficult 1
direction 1
dirqction 1
dispensed 1
distribute 1
distribution 1
double 1
drawing 1
drawn 2
due 1
during 5
each 4
ed 1
edged 3
edition 2
effect 1
effected 1
effective 7
egrated 1
eject 1
ejected 1
ejector 5
elements 1
emanate 1
embodiment 3
en 1
energy 2
enough 1
entire 1
equal 3
equilibrium 2
essentially 1
example 2
exchange 2
exemplar 1
exemplary 1
exert 1
expenditure 1
expensive 1
fact 1
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favorable 1
fb 1
fea 1
feintool 2
fewer 1
figure 1
fine 7
finely 2
finevblanking 1
firmly 4
follow 1
follows 1
for 16
force 9
forces 2
found 1
four 3
fr 1
frame 4
from 13
further 2
furthermore 1
generally 1
gives 2
greater 1
guided 9
handbuch 2
has 12
have 2.
he 1
heavy 1
height 1
here 1
holder 1
housing 1
however 2
hydraulic 5
hydraulically 4
hydraulics 1
identified 2
improved 1
in 53
inserted 2
inside 1
integrated 1
intended 1
into 3
invent 1
```

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invention 6
is 60
it 4
kept 1
knife 3
known 1
large 3
latter 2
least 7
likewise 1
line 2
located 1
logic 5
lyss 2
machine 10
made 1
main 5
maintaining 1
manner 1
manual 1
mass 2
material 5
may 2
means 4
mentioned 2
metal 8
mkterial 1
mode 1
more 6
motion 2
moved 1
movement 1
moves 1
moving 1
mpensation 1
ms 1
nd 2
necessary 4
neutralized 1
no 3
not 5
nullified 1
object 2
of 53
oil 5
on 9
once 1
one 11
```

```
only 1
opened 2
opens 1
operated 1
operating 1
operation 1
opposes 2
opposite 2
or 9
out 5
outside 1
over 1
page 11
pages 2
paratus 1
part 3
passes 1
patent 1
per 1
pillars 1
piston 20
pistonls 1
pistons 5
pistonts 1
place 3
placed 1
plate 29
plates 1
plurality 1
position 2
possibilities 1
possible 2
pparatus 1
praxis 2
preferably 1
preferred 1
present 3
press 16
pressed 1
presses 3
pressing 2
pressure 9
pressures 1
principle 1
probably 1
problem 1
process 2
produced 2
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proposes 1
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provide 1
provided 2
publisher 2
punch 12
quantity 2
quickly 1
raised 1
ram 22
rams 1
rapid 2
reasons 2
redu 1
reduces 1
reference 2
relates 1
relative 2
required 1
requires 1
respect 1
result 1
ring 37
ripg 1
rod 5
rs 1
said 2
sake 1
same 3
saving 1
section 1
sectional 8
separate 1
serve 1
sh 1
she 1
sheet 7
should 1
shown 3
side 1
simple 1
simpler 1
simplest 1
simplicity 1
simplified 1
since 1
single 1
smaller 2
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so 8
solid 1
solve 1
spaces 1
strength 1
stroke 8
subjected 2
substantially 5
such 2
sufficient 1
supply 1
supported 5
supporting 2
synchronism 1
take 1
taking 1
tank 6
tappet 2
terized 2
th 1
than 1
that 25
the 196
their 1
then 1
these 1
they 1
this 16
through 3
thus 2
tnd 1
to 43
together 1
tool 7
top 3
toward 1
traveling 1
turn 3
two 4
type 1
ufeinschneiden 1
under 2
up 2
upward 1
ures 1
urther 1
usually 2
valve 6
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various 2
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walls 1
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wct 1
weight 1
when 1
whereby 1
which 28
will 1
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work 1
working 4
workpiece 11
workpieces 5
would 1
ws 1
yfeinschneidene 1
zed 1
znxvvro 1
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